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WHAT IS CLAIMED IS:

A process for manufacturing a printed-on-display (POD) antenna of a wireless mobile personal terminal having a crystal liquid display (LCD), said process comprising the steps of:

- a) preparing a conductive transparent material;
- b) coating a uniform layer of said conductive transparent material on a glass substrate of said LCD;
 - c) coating a photoresist layer on said conductive transparent layer;
 - d) coating a mask having an antenna pattern on said photoresist layer;
- e) exposing said mask by ultraviolet (UV) rays;
 - f) immersing said glass substrate in a developing solution for developing for removing said yet cured photoresist layer;
 - g) etching said conductive transparent layer on said glass substrate; and
 - h) cleaning said remained photoresist layer for forming a pattern of said POD antenna on said conductive transparent layer of said glass substrate.
 - 2. The process of claim 1, wherein said conductive transparent material is an indium oxide doped with tin oxide (ITO).
 - 3. The process of claim 1, wherein said conductive transparent material is a tin dioxide (SnO2).
 - 4. The process of claim 2 or 3, wherein said step b) comprises the sub-steps of:
 - b1) ionizing an introduced argon (Ar) by sputtering in a vacuum system,
 - b2) generating argon ions (Ar+) and electrons by applying a plasma wherein said Ar+ are impinged on said conductive transparent material for causing said components of said conductive transparent material to decompose and adhere on said glass substrate by sputtering, and
 - b3) forming said uniform layer of said conductive transparent material on said glass substrate.

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- 5. The process of claim 2 or 3, wherein said step b) further comprises the substeps of :
- b4) decomposing said components of said conductive transparent material and adhering said same on said glass substrate by sputtering, and
- 5 b5) forming said uniform layer of said conductive transparent material on said glass substrate.
 - 6. The process of claim 1, wherein said etching in said step g) is performed on said conductive transparent layer by a plasma.
 - 7. The process of claim 1, wherein said etching in said step g) is performed on said conductive transparent layer by a strong acid.
 - 8. The process of claim 7, wherein said strong acid is formed of a solution composed of water, hydrochloric acid, and nitric acid having a predetermined ratio.
 - 9. The process of claim 1, wherein said POD antenna is printed on said surface of said glass substrate on said outer surface of said LCD.
 - 10. The process of claim 1, wherein said POD antenna is electrically coupled to a RF circuit of said personal terminal.